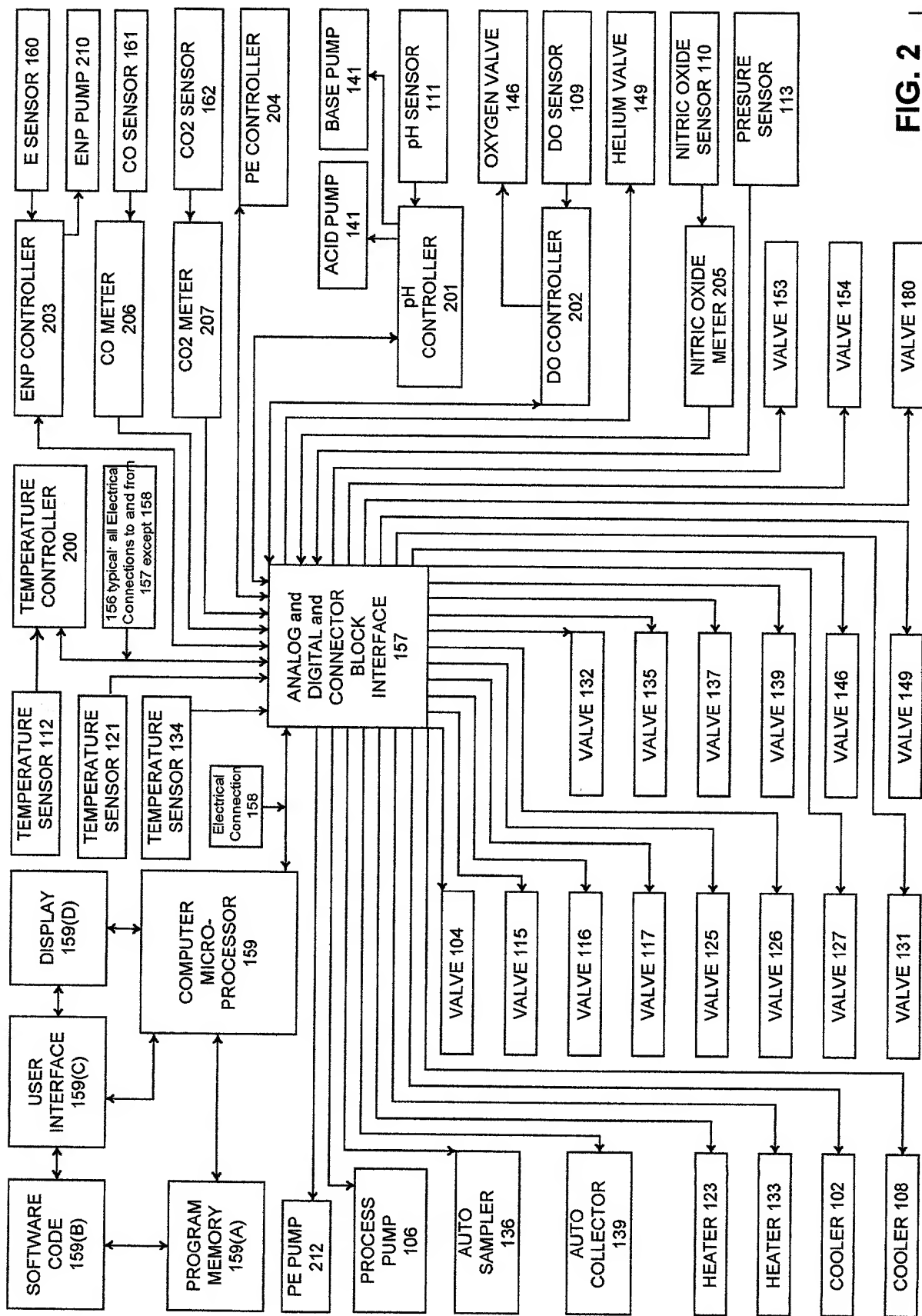
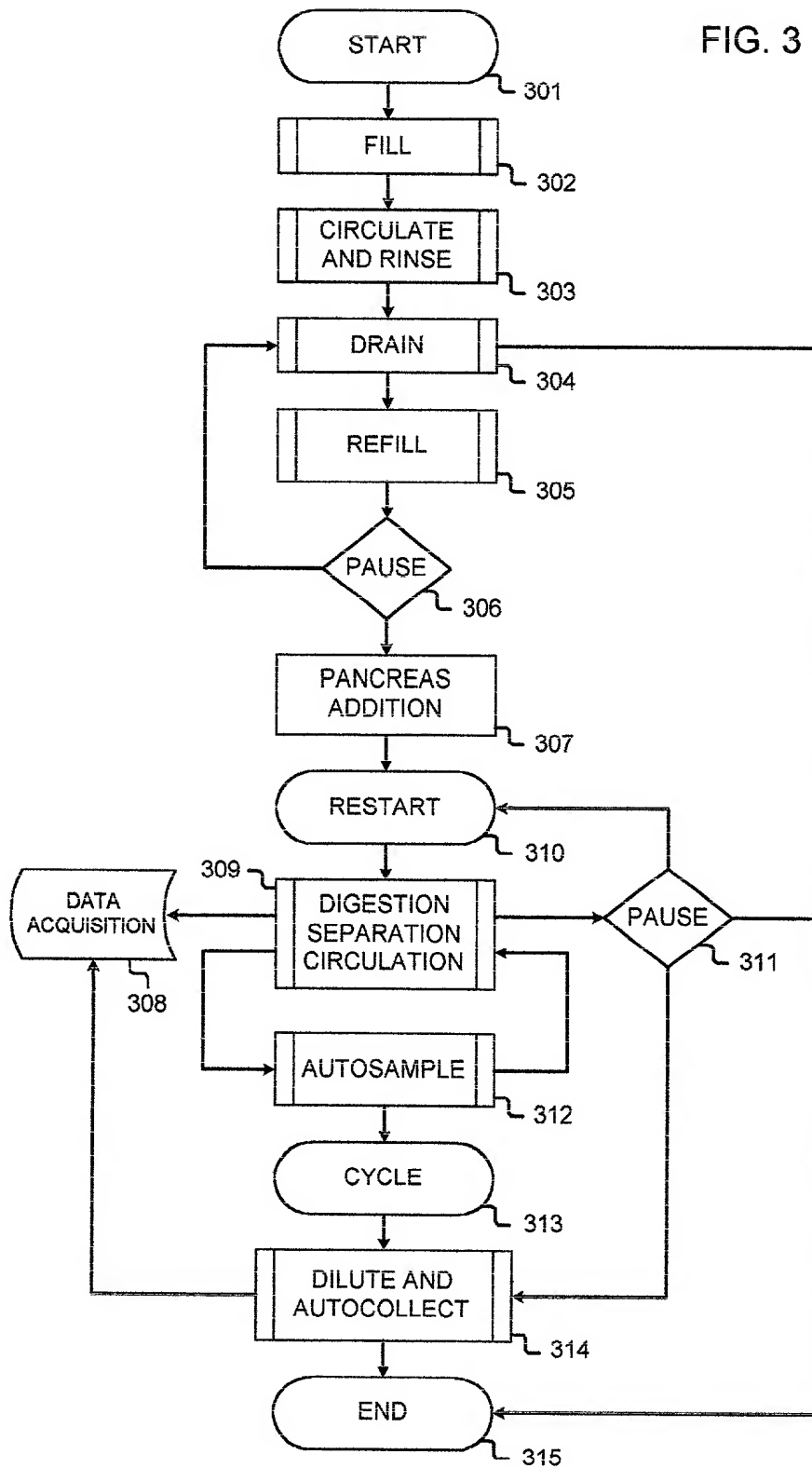


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FIG. 3



any data may be used for any purpose without charge or restriction. The user assumes all liability for any use of the information contained herein.

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AUTOMATED ISLET SEPARATION APPARATUS PROCESS CONTROL VALVE LOGIC

FIG. 4

<u>ACTION</u>	<u>STATE</u>	<u>VALVE</u>
FILL	OPEN	104 116 126 132 139 154 180
	CLOSED	115 117 125 127 131 135 137 153
CIRCULATE AND RINSE	OPEN	116 126 132 139 153 180
	CLOSED	104 115 117 125 127 131 135 137 154
DRAIN	OPEN	104 116 126 132 137 180
	CLOSED	115 117 125 127 131 135 139 153 154
REFILL	OPEN	104 116 126 132 139 154 180
	CLOSED	115 117 125 127 131 135 137 153
PANCREAS ADDITION IN DYNAMIC FLOW DIGESTION CHAMBER	OPEN	115 125 126 132 139 153
	CLOSED	104 116 117 180 127 131 135 137 154
DIGESTION, SEPARATION AND CIRCULATION WITH DYNAMIC FLOW DIGESTION CHAMBER FORWARD FLOW	OPEN	116 126 132 139 153 180
	CLOSED	104 115 117 125 127 131 135 137 154
DIGESTION, SEPARATION AND CIRCULATION WITH DYNAMIC FLOW DIGESTION CHAMBER REVERSE FLOW	OPEN	115 117 125 127 132 139 153 180
	CLOSED	104 116 126 131 135 137 154
AUTOSAMPLE AND CIRCULATE	OPEN	116 126 132 135 139 153 180
	CLOSED	104 116 118 126 128 132 137 154
DILUTE AND COLLECT	OPEN	104 116 126 131 180
	CLOSED	115 117 125 127 132 135 137 139 153 154
OXYGEN SPARGING ON OXYGEN SPARGING OFF	OPEN	146
	CLOSED	146
HELIUM SPARGING ON HELIUM SPARGING OFF	OPEN	149
	CLOSED	149

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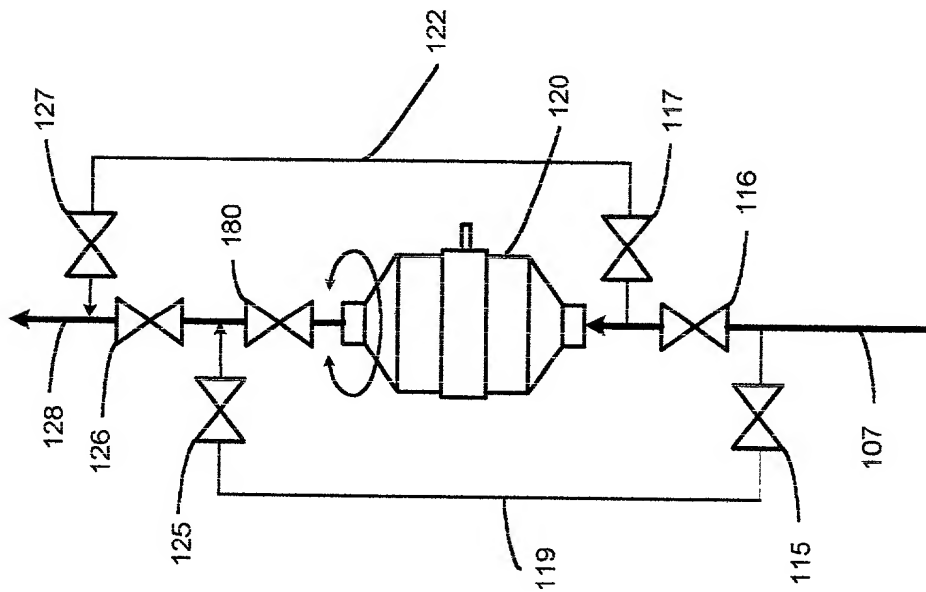


FIG. 5

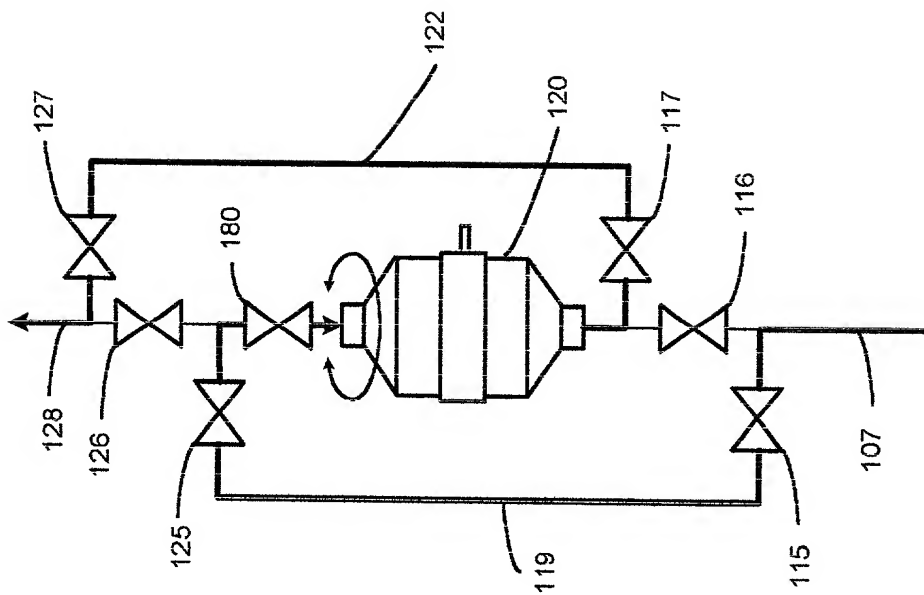


FIG. 6